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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known		
				Application Number	09/977864	
				Filing Date	October 15, 2001	
				First Named Inventor	Henryk Dudek	
				Art Unit	3734 1646	
				Examiner Name	Not Yet Assigned	
Attorney Docket Number	CIBT-P01-104					
Sheet	1	of	1			

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HOWARD

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
3M	BA	WO 00/41545	07-20-2000	Ontogeny, Inc.	The whole document	
3M	BB	WO 00/18428	04-06-2000	Biogen, Inc.	The whole document	

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
3M	CA	Dahmane, N. et al: "Activation of the transcription factor Gli1 and the Sonic hedgehog signalling pathway in skin tumours", NATURE, MACMILLAN JOURNALS LTD., London, GB, vol. 389, 10/23/97, pages 876-881			
	CB	Ruiz I. Altaba, A: "Gli proteins and Hedgehog signaling: development and cancer", TRENDS IN GENETICS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 15, no. 10, 10/1/99, pages 418-425			
	CC	Urase, Koko et al: "Spatial expression of Sonic hedgehog in the lung epithelium during branching morphogenesis." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 225, no.1, 1996, pages 161-166			
✓	CD	Hammerschmidt, M. et al: "The world according to hedgehog", TRENDS IN GENETICS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 13, no. 1, 1997, pages 14-21			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO/SB/08

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

CIBT-P01-104

Application Number

09/977,864

Applicant

Dudek et al.

Filing Date

October 15, 2001

Group Art Unit

3934 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
ZH	AA	WO 95/18856	PCT				
ZH	AB	WO 96/17924	PCT				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)


AC	U.S. Patent Application 09/663,835, filed 9/15/00, inventors: Baxter et al.					
AD	U.S. Patent Application 09/685,244, filed 10/10/00, inventors: Beachy et al.					
AE	U.S. Patent Application 09/687,800, filed 10/13/00, inventors: Baxter et al.					
AF	U.S. Patent Application 09/688,018, filed 10/13/00, inventors: Baxter et al.					
AG	U.S. Patent Application 09/688,076, filed 10/13/00, inventors: Beachy.					
AH	U.S. Patent Application 60/308,449, filed 7/27/01, inventors: Boyd et al.					
ZH AI	Alcedo, J. et al. The Drosophila smoothened Gene Encodes a Seven-Pass Membrane Protein, a Putative Receptor for the Hedgehog Signal. <i>Cell</i> 86, 221-232 (1996).					
ZH AJ	Apelqvist, A. et al. Sonic hedgehog directs specialized mesoderm differentiation in the intestine and pancreas. <i>Curr. Biol.</i> 7, 801-804 (1997).					
ZH AK	Bellusci, S. et al. Involvement of Sonic hedgehog (Shh) in mouse embryonic lung growth and morphogenesis. <i>Development</i> 124, 53 (1997).					
ZH AL	Berger, C.S. et al. Chromosomes in Kidney, Ureter, and Bladder Cancer. <i>Cancer Genetics and Cytogenesis</i> 23, 1-24 (1986).					
ZH AM	Bitgood, M.J. & McMahon, A.P. Hedgehog and Bmp Genes are Coexpressed at Many Diverse Sites of Cell-Cell Interaction in the Mouse Embryo. <i>Dev. Biol.</i> 172, 126-138 (1995).					

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Form PTO/SB/08 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket Number (Optional) CIBT-P01-104	Application Number 09/977,864
		Applicant Dudek et al.	
		Filing Date October 15, 2001	Group Art Unit 3734 1646

	AN	Bitgood, M.J. et al. Sertoli cell signaling by Desert hedgehog regulates the male germline. <i>Curr. Biol.</i> 6, 298 (1996).
	AO	Bumcrot, D.A. et al. Proteolytic Processing Yields Two Secreted Forms of Sonic hedgehog. <i>Mol. Cell. Biol.</i> 15, 2294-2303 (1995).
	AP	Cairns, P. et al. Initiation of bladder cancer may involve deletion of a tumour-suppressor gene on chromosome 9. <i>Oncogene</i> 8, 1083-1085 (1992).
	AQ	Carter, B.S. et al. Allelic loss of chromosomes 16q and 10q in human prostate cancer. <i>PNAS</i> 87, 8751-8755 (1990).
	AR	Chang, D.E. et al. Products, genetic linkage and limb patterning activity of a murine hedgehog gene. <i>Development</i> 120, 3339-3353 (1994).
	AS	Chen, Y. & Struhl, G. Dual Roles for Patched in Sequestering and Transducing Hedgehog. <i>Cell</i> 87, 553 (1996).
	AT	Dalbagni, G. et al. Genetic alterations in bladder cancer. <i>Lancet</i> 342, 469-471 (1993).
	AU	Davidson, E. How embryos work: a comparative view of diverse modes of cell fate specification. <i>Development</i> 108, 365-389 (1990).
	AV	Echelard, Y. et al. Sonic Hedgehog, a Member of a Family of Putative Signaling Molecules, is Implicated in the Regulation of CNS Polarity. <i>Cell</i> 75, 1417-1430 (1993).
	AW	Ekker, S.C. et al. Patterning activities of vertebrate hedgehog proteins in the developing eye and brain. <i>Curr. Biol.</i> 5, 944-955 (1995).
	AX	Ekker, S.C. et al. Distinct expression and shared activities of members of the hedgehog gene family of <i>Xenopus laevis</i> . <i>Development</i> 121, 2337-2347 (1995).
	AY	Ericson, J. et al. Sonic Hedgehog Induces the Differentiation of Ventral Forebrain Neurons: A Common Signal for Ventral Patterning within the Neural Tube. <i>Cell</i> 81, 747-756 (1995).
	AZ	Fan, C.-M. & Tessier-Lavigne, M. Patterning of Mammalian Somites by Surface Ectoderm and Notochord: Evidence for Sclerotome Induction by a Hedgehog Homolog. <i>Cell</i> 79, 1175-1186 (1994).
	BA	Fan, C.-M. et al. Long-Range Sclerotome Induction by Sonic Hedgehog: Direct Role of the Amino-Terminal Cleavage Product and Modulation by the Cyclic AMP Signaling Pathway. <i>Cell</i> 81, 457-465 (1995).
	BB	Fietz, M.J. et al. Secretion of the amino-terminal fragment of the Hedgehog protein is necessary and sufficient for hedgehog signaling in <i>Drosophila</i> . <i>Curr. Biol.</i> 5, 643-651 (1995).
	BC	Forbes, A.J. et al. hedgehog is required for the proliferation and specification of ovarian somatic cells prior to egg chamber formation in <i>Drosophila</i> . <i>Development</i> 122, 1125-1135 (1996).
BD	Francis, P.H. et al. Bone morphogenetic proteins and a signaling pathway that controls patterning in the developing chick limb. <i>Development</i> 120, 209-218 (1994).	


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		Applicant Dudek et al.	
		Filing Date October 15, 2001	Group Art Unit 3731 1646
	BE	Fujita, E. et al. Involvement of Sonic hedgehog in the Cell Growth of LK-2 Cells, Human Lung Squamous Carcinoma Cells. <i>Biochem. Biophys. Res. Comm.</i> 238, 658 (1997).	
	BF	Gibas, Z. et al. Nonrandom Chromosomal Changes in Transitional Cell Carcinoma of the Bladder. <i>Cancer Res.</i> 44, 1257-1264 (1984).	
	BG	Goodrich, L.V. et al. Conservation of the hedgehog/patched signaling pathway from flies to mice: induction of a mouse patched gene by Hedgehog. <i>Genes Dev.</i> 10, 301-312 (1996).	
	BH	Gurdon, J.B. The Generation of Diversity and Pattern in Animal Development. <i>Cell</i> 68, 185-199 (1992).	
	BI	Hahn, H. et al. Mutations of the Human Homolog of Drosophila patched in the Nevroid Basal Cell Carcinoma Syndrome. <i>Cell</i> 85, 841 (1996).	
	BJ	Hammerschmidt, M. et al. Protein kinase A is a common negative regulator of Hedgehog signaling in the vertebrate embryo. <i>Genes Dev.</i> 10, 647-658 (1996).	
	BK	Hynes, M. et al. Induction of Midbrain Dopaminergic Neurons by Sonic Hedgehog. <i>Neuron</i> 15, 35-44 (1995).	
	BL	Honig, L.S. Positional signal transmission in the developing chick limb. <i>Nature</i> 291, 72-73 (1981).	
	BM	Hooper, J.E. & Scott, M.P. The Drosophila patched Gene Encodes a Putative Membrane Protein Required for Segmental Patterning. <i>Cell</i> 59, 751 (1989).	
	BN	Jensen, A.M. & Wallace, V.A. Expression of Sonic hedgehog and its putative role as a precursor cell mitogen in the developing mouse retina. <i>Development</i> 124, 363 (1997).	
	BO	Jessell, T.M. & Melton, D.A. Diffusible Factors in Vertebrate Embryonic Induction. <i>Cell</i> 68, 257-270 (1992).	
	BP	Johnson, R.L. et al. Ectopic Expression of Sonic hedgehog Alters Dorsal-Ventral Patterning of Somites. <i>Cell</i> 79, 1165-1173 (1994).	
	BQ	Johnson, R.L. et al. Human Homolog of patched, a Candidate Gene for the Basal Cell Nevus Syndrome. <i>Science</i> 272, 1668 (1996).	
	BR	Krauss, S. et al. A Functionally Conserved Homolog of the Drosophila Segment Polarity Gene hh is Expressed in Tissues with Polarizing Activity in Zebrafish Embryos. <i>Cell</i> 75, 1401-1416 (1993).	
	BS	Lai, C.-J. et al. Patterning of the neural ectoderm of <i>Xenopus laevis</i> by the amino-terminal product of hedgehog autoproteolytic cleavage. <i>Development</i> 121, 2349-2360 (1995).	
	BT	Laufer, E. et al. Sonic hedgehog and Fgf-4 Act through a Signaling Cascade and Feedback Loop to Integrate Growth and Patterning of the Developing Limb Bud. <i>Cell</i> 79, 993-1003 (1994).	
	BU	Lee, J.J. et al. Secretion and Localized Transcription Suggest a Role in Positional Signaling for Products of the Segmentation Gene hedgehog. <i>Cell</i> 71, 33-50 (1992).	


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		Applicant Dudek et al.	
		Filing Date October 15, 2001	Group Art Unit 3734 1646
 JM ↓	BV	Lee, J.J. et al. Autoproteolysis in hedgehog Protein Biogenesis. <i>Science</i> 266, 1528-1537 (1994).	
	BW	Lench, N.J. et al. Characterization of human patched gene line mutations in naevoid basal cell carcinoma syndrome. <i>Hum. Genet.</i> 100, 497-502 (Oct. 1997).	
	BX	Levin, M. et al. A Molecular Pathway Determining Left-Right Asymmetry in Chick Embryogenesis. <i>Cell</i> 82, 803-814 (1995).	
	BY	Levine, E.M. et al. Sonic Hedgehog Promotes Rod Photoreceptor Differentiation in Mammalian Retinal Cells in Vitro. <i>J. Neurosci.</i> 17, 6277 (1997).	
	BZ	Li, J. et al. PTEN, a Putative Protein Tyrosine Phosphatase Gene Mutated in Human Brain, Breast, and Prostate Cancer. <i>Science</i> 275, 1943-1947 (1997).	
	CA	Lopez-Martinez, A. et al. Limb-patterning activity and restricted posterior localization of the amino-terminal product of Sonic hedgehog cleavage. <i>Curr. Biol.</i> 5, 791-795 (1995).	
	CB	Marigo, V. et al. Biochemical evidence that Patched is the Hedgehog receptor. <i>Nature</i> 384, 177-179 (1996).	
	CC	Marti, E. et al. Distribution of Sonic hedgehog peptides in the developing chick and mouse embryo. <i>Development</i> 121, 2537-2547 (1995).	
	CD	Marti, E. et al. Requirement of 19K form of Sonic hedgehog for induction of distinct ventral cell types in CNS explants. <i>Nature</i> 375, 322-325 (1995).	
	CE	McGarvey, T.W. et al. PTCH gene mutations in invasive transitional cell carcinoma of the bladder. <i>Oncogene</i> 17, 1167-1172 (1998).	
	CF	Munsterberg, A.E. et al. Combinatorial signaling by Sonic hedgehog and Wnt family members induces myogenic bHLH gene expression in the somite. <i>Genes Dev.</i> 9, 2911-2922 (1995).	
	CG	Nakano, Y. et al. A protein with several possible membrane-spanning domains encoded by the Drosophila segment polarity gene patched. <i>Nature</i> 341, 508 (1989).	
	CH	Niswander, L. et al. A positive feedback loop coordinates growth and patterning in the vertebrate limb. <i>Nature</i> 371, 609-612 (1994).	
	CI	Nusse, R. Patching up Hedgehog. <i>Nature</i> 384, 119-120 (1996).	
	CJ	Nusslein-Volhard, C. & Wieschaus, E. Mutations affecting segment number and polarity in Drosophila. <i>Nature</i> 287, 795-801 (1980).	
	CK	Pepicelli, C.V. et al. Sonic hedgehog regulates branching morphogenesis in the mammalian lung. <i>Curr. Biol.</i> 8, 1083-1086 (1998).	
CL	Perrimon, N. Hedgehog and Beyond. <i>Cell</i> 80, 517 (1995).		

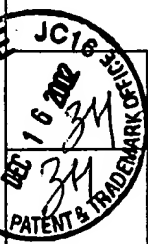
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		Applicant Dudek et al.	
		Filing Date October 15, 2001	Group Art Unit 3731 1646
 3H ↓	CM	Perrimon, N. Serpentine Proteins Slither into the Wingless and Hedgehog Fields. <i>Cell</i> 86, 513 (1996).	
	CN	Placzek, M. et al. Induction of floor plate differentiation by contact-dependent, homiogenetic signals. <i>Development</i> 117, 205-218 (1993).	
	CO	Podlasek, C.A. et al. Prostrate Development Requires Sonic Hedgehog Expressed by the Urogenital Sinus Epithelium. <i>Dev. Biol.</i> 209, 28-39 (1999).	
	CP	Porter, J.A. et al. Hedgehog Patterning Activity: Role of a Lipophilic Modification Mediated by the Carboxy-Terminal Autoprocessing Domain. <i>Cell</i> 86, 21-34 (1996).	
	CQ	Porter, J.A. et al. The product of hedgehog autoproteolytic cleavage active in local and long-range signaling. <i>Nature</i> 374, 363-366 (1995).	
	CR	Reifenberger, J. et al. Missense Muations in SMOH in Sporadic Basal Cell Carcinomas of the Skin and Primitive Neuroectodermal Tumors of the Central Nervous System. <i>Cancer Res.</i> 58, 1798-1803 (1998).	
	CS	Riddle, R.D. et al. Sonic hedgehog Mediates the Polarizing Activity of the ZPA. <i>Cell</i> 75, 1401-1416 (1993).	
	CT	Roberts, D.J. et al. Sonic hedgehog is an endodermal signal inducing Bmp-4 and Hox genes during induction and regionalization of the chick hindgut. <i>Development</i> 121, 3163-3174 (1995).	
	CU	Roelink, H. et al. Floor Plate and Motor Neuron Induction by vhh-1, a Vertebrate Homolog of hedgehog Expressed by the Notochord. <i>Cell</i> 76, 761-775 (1994).	
	CV	Roelink, H. et al. Floor Plate and Motor Neuron Induction by Different Concentrations of the Amino-Terminal Cleavage Product of Sonic Hedgehog Autoproteolysis. <i>Cell</i> 81, 445-455 (1995).	
	CW	Ruiz i Altaba, A. et al. Restrictions to Floor Plate Induction by hedgehog and Winged-Helix Genes in the Neural Tube of Frog Embryos. <i>Mol. Cell. Neurosci.</i> 6, 106-121 (1995).	
	CX	Smeets, W. et al. Chromosomal Analysis of Bladder Cancer. III. Nonrandom Alterations. <i>Cancer Genetics and Cytogenesis</i> 29, 29-41 (1987).	
	CY	Stone, D.M. et al. The tumour-suppressor gene patched encodes a candidate receptor for Sonic hedgehog. <i>Nature</i> 384, 129-134 (1996).	
	CZ	Tabata, T. et al. The Drosophila hedgehog gene is expressed specifically in posterior compartment cells and is a target of engrailed regulation. <i>Genes Dev.</i> 6, 2635-2645 (1992).	
	DA	Tanabe, Y. et al. Induction of motor neurons by Sonic hedgehog is independent of floor plate differentiation. <i>Curr. Biol.</i> 5, 651-658 (1995).	
DB	Wang, M.Z. et al. Induction of dopaminergic neuron phenotype in the midbrain by Sonic hedgehog protein. <i>Nature Med.</i> 1, 1184-1188 (1995).		
DC	Weinberg, E.S. et al. Developmental regulation of zebrafish MyoD in wild-type, no tail and spadetail embryos. <i>Development</i> 122, 271-280 (1996).		

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		Applicant Dudek et al.	
		Filing Date October 15, 2001	Group Art Unit 3734 1646
	DD	Wilkin, R.P. et al. Stromal Salpha-reductase activity is elevated in benign prostatic hyperplasia. <i>Acta Endocrinology</i> 94, 284-288 (1980).	
	DE	Xie, J. et al. Activating Smoothened mutations in sporadic basal-cell carcinoma. <i>Nature</i> 391, 90-92 (1998).	
	DF	Yamada, T. et al. Control of Cell Pattern in the Neural Tube: Motor Neuron Induction by Diffusible Factors from Notochord and Floor Plate. <i>Cell</i> 73, 673-686 (1993).	
EXAMINER 3M Zach Howard		DATE CONSIDERED 10/19/05	
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